

401 KAR 59:175. New service stations.

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
Department for Environmental Protection
Division for Air Quality

Relates to: KRS Chapter 224

Pursuant to: KRS 13.082, 224.033

Necessity and Function: KRS 224.033 requires the Department for Natural Resources and Environmental Protection to prescribe regulations for the prevention, abatement, and control of air pollution. This regulation provides for the control of volatile organic compound emissions from new service stations.

Section 1. Definitions.

As used in this regulation, all terms not defined herein shall have the meaning given to them in 401 KAR 50:001.

- (1) "Affected facility" means the gasoline storage tanks at a service station.
- (2) "Classification date" means June 6, 1979.
- (3) "Service station" means any public or private establishment which dispenses gasoline into vehicle fuel tanks.
- (4) "Submerged fuel pipe" means any fill pipe the discharge of which is entirely submerged when the liquid level is six (6) inches above the bottom of the tank; or when applied to a tank which is loaded from the side, shall mean any fill pipe the discharge opening of which is entirely submerged when the liquid level is two (2) times the fill pipe diameter above the bottom of the tank.
- (5) "Vapor balance system" means a system which conducts vapors displaced from storage tanks during filling operations to the storage compartment of the transport vehicle delivering the fuel.
- (6) "Vent line restriction" means:
 - (a) An orifice of one-half (1/2) to three-quarters (3/4) inch inside diameter;
 - (b) A pressure-vacuum relief valve set to open at not less than eight (8) oz. per square inch pressure and not less than one-half (1/2) oz. per square inch vacuum unless a different vacuum relief setting is required by safety or fire authorities; or
 - (c) A vent shut-off valve which is activated by connection of the vapor return hose.
- (7) "Interlocking system" means devices which keep the storage tank sealed unless the vapor hose is connected or which prevent delivery of fuel until the vapor hose is connected.

Section 2. Applicability.

The provisions of this regulation shall apply to each affected facility located in urban counties designated non-attainment for ozone according to 401 KAR 51:010 which commenced on or after the classification date defined below.

Section 3. Standard for Volatile Organic Compounds.

- (1) The owner or operator of an affected facility shall install, maintain, and operate the following devices:

- (a) Submerged fill pipe;
 - (b) Vent line restriction on the affected facility vent line; and
 - (c) Vapor balance system with an interlocking system and vapor tight connections on the liquid fill line and the vapor return line. The cross-sectional area of the vapor return hose must be at least fifty (50) percent of the liquid fill hose, and free of flow restrictions to achieve acceptable recovery. The size and design of the vapor return line and connections, including coaxial systems, are subject to the approval of the department.
 - (d) If the gasoline storage tank is equipped with a separate gauge well, a gauge well drop tube shall be installed which extends to within six (6) inches of the bottom of the tank.
- (2) The owner or operator may elect to use an alternate control system if that system can be demonstrated to the department's satisfaction to achieve an equivalent control efficiency.
 - (3) The owner or operator shall not allow any transport vehicle to deliver fuel to an affected facility until the transport vehicle is properly connected to the vapor balance system or alternate control system.

Section 4. Exemptions.

Any affected facility shall be exempt from the provisions of Section 3 if the annual throughput is less than or equal to 120,000 gal.

Effective Date: February 8, 1993

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Original Reg	JUN 29, 1979	JAN 25, 1980	45 FR 6092
		AUG 07, 1981	46 FR 40188
1st Revision	SEP 24, 1982	MAR 30, 1983	48 FR 13169
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